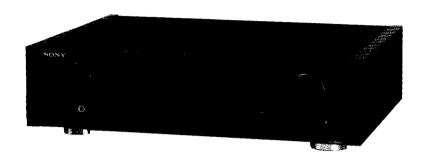
SERVICE MANUAL

AEP Model E Model



SPECIFICATIONS

Item	C	onditi	ion	Data		
Total harmonic distortion	At rated 20 kHz d		-	0.001%		
Intermodulation (IM) distortion 60 Hz : 7 kHz = 4 : 1	at rated	outpu	it	0.001%		
Residual noise	Network	Α		Less that 8 μV		
Frequency response	PHONO	ММ		RIAA equalization curve ±0.2 dB		
	TUNER, TAPE 1, TAPE 3, ADAPTO	TAPE		3 Hz - 300 kHz + 0dB		
Input sensitivity	PHONO	MC (3 ohms)	0.17 mV, 100 ohms		
		MC(4	10 ohms)	0.17 mV, 1 kohms		
:		ММ		2.5 mV, 50 kohms		
	TUNER, CD (UNI AUX, TA TAPE 3,	PE 1,	TAPE 2,	150 mV, 50 kohms		
	CD (BAL	ANC	ED)	300 mV, 20 kohms		
Maximum input capability (1 kHz)	PHONO MC			9 mV		
Capability (1 KHZ)	(1 kHz, THD 0.0	03%)	ММ	150 mV		

S/N (network)	PHONO	MC (0.5 mV)	83 dB (A)
		MM (5 mV)	95 dB (A)
	AUX, TA	BALANCED), PE 1, TAPE 2, ADAPTOR IN	105 dB (A)
Output voltage impedance	TAPE 1, TAPE 3	TAPE 2,	150 mV, 1 kohms
	HEADPH	HONES	45 milliwatts (at 8 ohms) Accepts low and high impedance headphones.
	OUTPUT (UNBAL		1.5 V, 700 ohms
	OUTPUT (BALAN		3 V, 1.2 kohms

- Continued on Page 2 -





Item	Condition	Data
Tone controls	BASS (at 100 Hz)	±7 dB (turnover freq. 200 Hz) ±8 dB (turnover freq. 400 Hz)
•	TREBLE (at 10 kHz)	±6 dB (turnover freq. 3 kHz) ±8 dB (turnover freq. 6 kHz)
SUBSONIC filter	_	6 dB/octave attenuation below 15 Hz
Muting	_	-20 dB

General

System Low-noise FET high gain, NFB type equalizer

amplifier, low noise FET, Double-stage differential, push-pull output, flat amplifier

passive type direct tone control

Power requirements

European countries: 220 V AC, 50/60 Hz Other countries: 110 -120 V or 220 -240 V AC

adjustable, 50/60 Hz

Power consumption

European countries: 3 switched 200 W max. AC outlets

Other countries: 3 switched, 500 W max. Dimensions Approx. 470 x 130 x 370 mm (w/h/d) Incl. projecting parts and controls

Weight Approx. 11.5 kg

Supplied accessories

Remote commander RM-S808 (1) Sony batteries SUM-3(NS) (2)

Connecting cord (1)

Design and specification subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

TABLE OF CONTENTS

Secti	<u>on</u> <u>T</u>	<u>ïitle</u>	<u>Page</u>	Section	<u>on Title Page</u>	
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SECTION 1 GENERAL

Precautions

This section is extracted from instraction manual.

- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the plug out by the cord.
- Avoid installing or leaving the unit in a location:
 - near heat sources such as radiators, airducts or heaters
 - subject to direct sunlight
 - exposed to rain or moisture
 - where it is liable to come into contact with dust or dirt
 - that is unventilated, such as on a bookcase.
- Should any liquid or solid object fall into the unit, unplug the unit and have the unit checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.
- The unit is not disconnected from the AC power source as long as it is connected to the mains outlet, even if the unit itself has been turned off.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

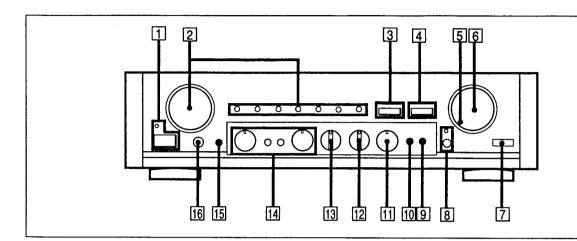
Operating Voltage

Before connecting the unit to an AC outlet, be sure that the operating voltage of your unit is identical with that of your local power supply.

European countries	Operates on 220 V AC, 50/60 Hz.
Other countries 220 - 240 V	Operates on either 110 - 120 V or 220 - 240 V AC, 50/60 Hz. The voltage selector is located on the rear panel. If the selector must be reset, disconnect the AC power cord and set the selector to the proper voltage of your local power supply.

Function of Controls

Fonction des commandes



For instructions refer to the pages indicated in the circled number.

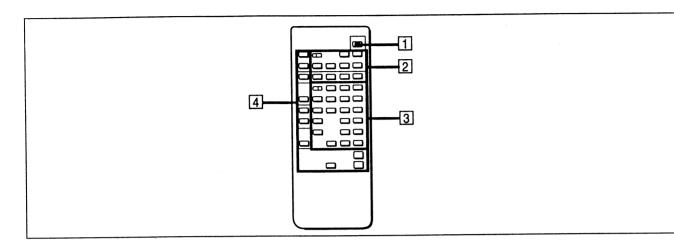
- 1 POWER switch and STANDBY Indicator ®
- 2 INPUT SELECTOR and indicators ®
- 3 ADAPTOR switch and indicator ®
- 4 SOURCE DIRECT switch and indicator ®
- 5 Protection and power on indicator ®
- 6 ATTENUATOR control ©
- 7 Remote sensor
- 8 MUTING button and indicator 6
- 9 SUBSONIC filter switch @
- 10 MODE selector @
- 11 BALANCE control 6
- 12 CARTRIDGE LOAD selector 19
- 13 REC OUT SELECTOR @
- 14 BASS and TREBLE controls and TURNOVER selectors ®
- 15 OUTPUT switch @
- 16 PHONES jack (stereo phone jack)

Pour les détails, se reporter aux pages indiquées dans les cercles.

- 2 Sélecteur et témoins d'entrée (INPUT SELECTOR) 10
- 3 Commutateur et témoin d'adaptateur (ADAPTOR) ®
- 4 Commutateur et témoin de source directe (SOURCE DIRECT) (6)
- 5 Témoin de blocage et de mise sous-tension @
- 6 Bouton d'atténuation (ATTENUATOR) @
- 7 Détecteur de télécommande
- 8 Touche et témoin d'assourdissement (MUTING) 6
- Commutateur de filtre subsonique (SUBSONIC)
- 10 Sélecteur de mode (MODE) @
- 11 Bouton de balance (BALANCE) 16
- Sélecteur de chargement de cellule (CARTRIDGE LOAD) (10)
- Sélecteur de sortie d'enregistrement (REC OUT SELECTOR) @
- 14 Boutons des graves et des algus (BASS, TREBLE) et sélecteurs de fréquence de Nyquist (TURNOVER)
- [15] Commutateur de sortie (OUTPUT) (B)
- 16 Prise casque (PHONES, téléphonique stéréo)

Function of Controls

Fonction des commandes



1 POWER switch

2 Tape deck or DAT deck control section

DECK A/B selector: Selects DECK A or B to be controlled.

- I Locates a desired selection. (AMS) (only for deck B)
- ◄/►: Play
- ◄◄/▶►: Fast winding
- ■: Stop
- II: Pause
- O: Record muting
- •: Recording

3 Tuner or CD control section

TUNER/CD selector: Selects TUNER or CD to be controlled.

BAND button: Selects the band for a preset station. (only for tuner)

SHIFT and PRESET buttons: Selects a preset station.(only for tuner)

Preset or program number (1 to 9, 0/10, and >10) buttons: Selects a preset station (only for tuner) or track (only for CD player).

- H◄/▶►: Locates a desired selection.(only for CD plaver)
- ►: Starts play.(only for CD player)
- ■: Stops play.(only for CD player)
- ■: Pause (only for CD player)

4 Control amplifier section

Function selectors: Select an input source of the control amplifier.

ATTENUATOR +/- buttons: Control the attenuator of the control amplifier.

MUTING button: Mutes the sound.

1 Interrupteur d'alimentation (POWER)

2 Section platine-cassette ou platine DAT

Sélecteur de platine A/B (DECK A/B): Sélection de la platine A ou B à commander.

- H Localisation d'une plage (AMS) (platine B uniquement)
- ◄/►: Lecture
- ◄◄/▶►: Bobinage rapide
- ■: Arrêt
- II: Pause
- O: Silencieux d'enregistrement
- •: Enregistrement

3 Section tuner ou lecteur CD

Sélecteur de tuner/lecteur CD (TUNER/CD): Sélection du lecteur CD ou du tuner à commander.

Touche de gamme (BAND): Sélection de la gamme pour une station présélectionnée (tuner uniquement). Touches de décalage et de présélection (SHIFT. PRESET): Sélection d'une station présélectionnée (tuner uniquement).

Touches numériques de présélection ou de plage (1 à 9, 0/10, et >10): Sélection d'une station présélectionnée (tuner uniquement) ou d'une plage (lecteur CD uniquement).

I◄◄/▶►: Localisation d'une plage donnée (lecteur CD uniquement)

- ▶: Lecture (lecteur CD uniquement)
- ■: Arrêt de la lecture (lecteur CD uniquement)
- II: Pause (lecteur CD uniquement)

4 Section amplificateur de contrôle

-5-

Sélecteurs de fonction: Sélection d'une source d'entrée de l'amplificateur de contrôle.

Touches d'atténuation (ATTENUATOR +/-): Réglage d'atténuation de l'amplificateur de contrôle.

Touche d'assourdissement (MUTING): Assourdissement du son.

System Connections

Connexions du système

Connection Notes

- The power cord should be connected last of all, first making sure that the POWER switch is turned off.
- Cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- Cord plugs and jacks are color coded. Red plugs and jacks are for the right channel (R) and white ones are for the left channel (L).

Remarques sur les connexions

- Le cordon d'alimentation doit être raccordé en dernier, en s'assurant au préalable que l'interrupteur POWER est sur OFF.
- Les câbles de connexions doivent être entièrement insérés dans les prises, une connexion relâchée pouvant être la cause de bruit et de ronflement.
- Les fiches et prises des cordons sont cordés avec une couleur. Les fiches et prises rouges sont destinées au canal droit et les blanches au canal gauche.

Schéma des connexions

Connection Diagram Speaker system Enceintes acoustiques CD player Lecteur CD TA-N80ES Power amplifier BALANCED Amplificateur de puissance CD INPUT SELECTOR Connecting cord (supplied) UNBALANCED (-----Cordon de liaison (fournie) TA-E80ES UNBALANCED UNBALANCED AC OUTLET to a wall outlet TAPE 1 CONTROL S Turntable vers une prise murale system Platine tourn Cassette deck 1 disque PHONO Platine-cassette 1 TAPE 2 ADAPTOR Graphic Cassette deck 2 equalizer 000 Platine-cassette 2 Egaliseur TAPE 3 graphique **TUNER** Cassette deck 3 Tuner Platine-cassette 3 Tuner

14

DISA Note:

NOT

DISA

Insert CAUT

ASSE

xions du système

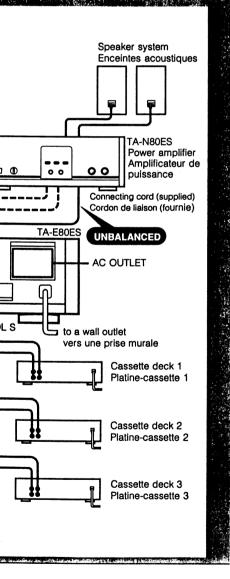
sur les connexions

llimentation doit être raccordé en dernier, au préalable que l'interrupteur POWER est

e connexions doivent être entièrement les prises, une connexion relâchée pouvant de bruit et de ronflement.

orises des cordons sont cordés avec une fiches et prises rouges sont destinées au les blanches au canal gauche.

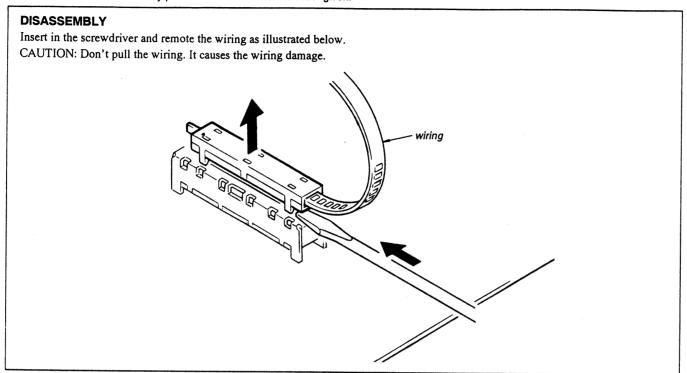
connexions

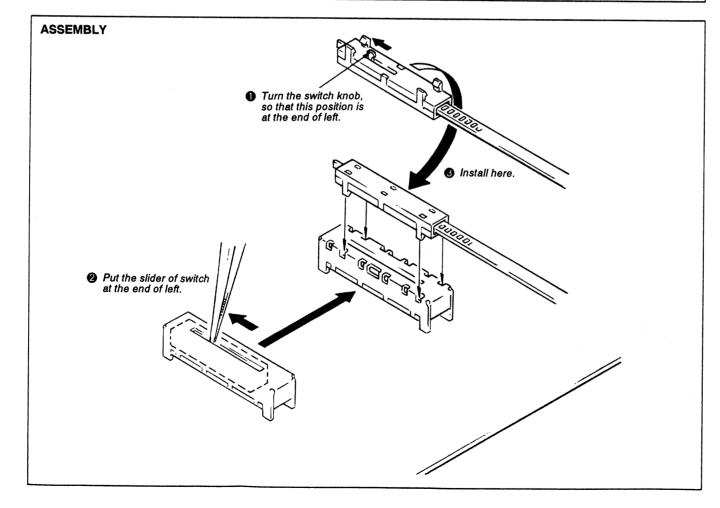


SECTION 2 DISASSEMBLY

NOTE ON REPAIRING DISASSEMBLY AND ASSEMBLY FOR SWITCH SECTION

Note: Follow the disassembly procedure in the numerical order given.

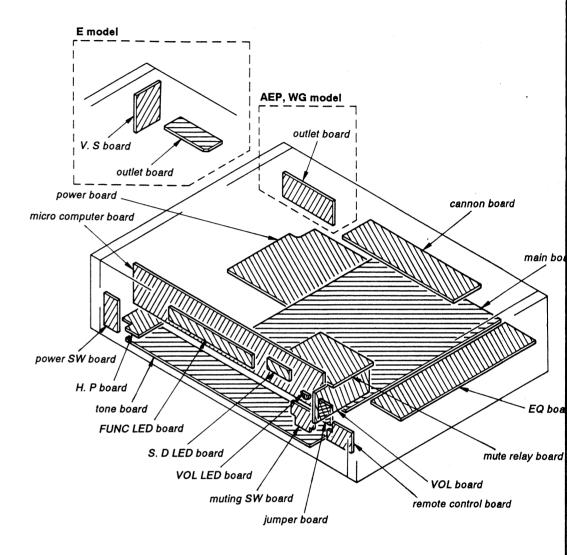




SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

WG: West Germany



-7-

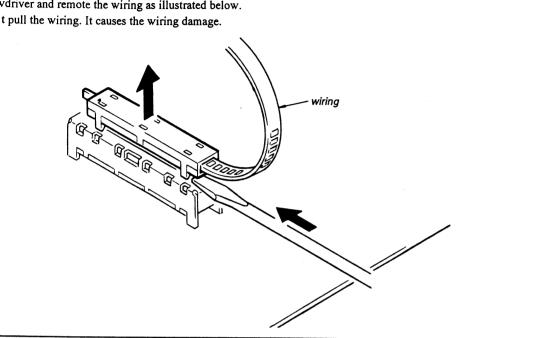
-8-

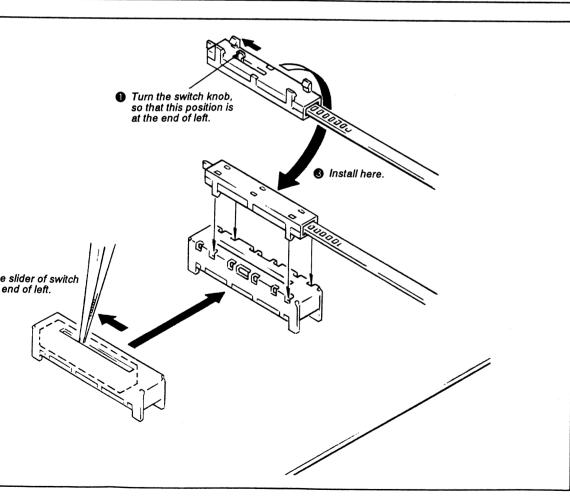
SECTION 2 DISASSEMBLY

PAIRING

AND ASSEMBLY FOR SWITCH SECTION disassembly procedure in the numerical order given.

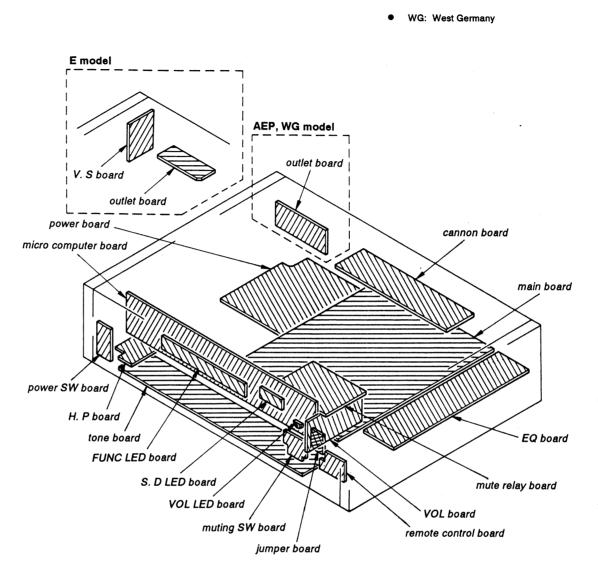
vdriver and remote the wiring as illustrated below.

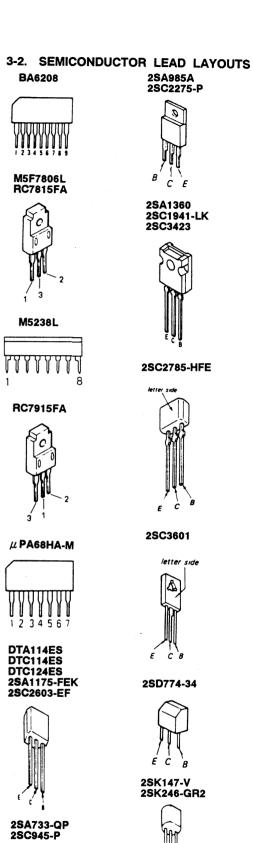


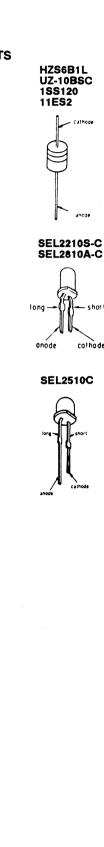


SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

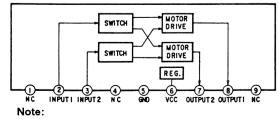






3-3. PRINTED WIRING BOARDS • See page 9 for Semiconductor Lead Layouts

nductor L	ocation			4		2	7		A		5		: 1	7	0		0	4/	2	44		40	47		1/1	15		16
Location	Ref. No.	Location			CONNON BO	ARD)	3		4		5	- 6)		8		9	10	J	11	-	12 TONE BOA	13 RD)		14	15		16
J-10 IC101 E-9 IC201 F-9 IC202 C-3 IC203 B-10 IC401 J-8 IC402 A-14 IC601 B-8 IC602 F-23 IC901 F-23 IC902 F-23 IC904 F-23 IC907 F-23 IC907 F-22 IC908 E-23 IC909	B-13 B-32 A-28 C-28 B-4 B-7 F-19 J-29 J-30 J-27 I-24 J-25	В		AMOST BACAS	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	BAL ANCED OR ROSE	1404 150 150 150 150 150 150 150 150 150 150	AAA AMEE CO L CO	J405 F413	(408 64(-6	C410 R415 C4	HPUT HPUT MACED S S S S S S S S S S S S S S S S S S S	Para San Control of the Control of t	PUT PY401 RY401 RY401 RY401 RY401 RY401	310 Prior		H.P.B	OARD)	0 1 0 0 0 0 0 0 0 0	WH	0A-7		S308 S308 OUTPOT OFF DP PP WHIT CASE HIDD			BUTTO BASS	P356	
F-22 E-23	IC908 IC909	J-25 J-25 E-29		3 >	<u> </u>		(4)				<u></u>	Ŷ 			5		CHASSIS)2	 			
F-23 G-20 G-20 D-20 E-23 E-34 E-23 E-33 E-33 E-33 J-33 K-33 K-33 J-33 K-33 J-33 K-33 J-33 K-33 J-33 K-33 J-33 K-33 K	Q101 Q103 Q104 Q105 Q106 Q107 Q108 Q109 Q110 Q111 Q112 Q113 Q114 Q115 Q116 Q117 Q118 Q151 Q153 Q156 Q157 Q158 Q156 Q157 Q160 Q201 Q202 Q203 Q204 Q209 Q251	J-11 I-10 I-10 I-11 I-10 I-10 I-10 I-10 I	D E F		MIN BOARD WG MODEL WG	100 100 100 100 100 100 100 100 100 100		DIOG							RIAF CIST	G G G G G G G G G G G G G G G G G G G	(S)	Die Dios	1017 1017 1017 1017 1017	alido alido		(4.9)		T BOARD] X: OUTLET THE DECOM MAX CNJ 953 CNJ 953 CNJ 953 I-635-834			BLK GRY CRY	7.S BOAR VH-9 220-72 (4-9)
J-31 K-30 G-26 G-27 G-28 G-29 G-30 G-31 G-32 G-33 J-31 K-31 K-31 K-31 K-31 K-31 K-31 K-31	Q252 Q253 Q254 Q259 Q601 Q602 Q603 Q604 Q605 Q607 Q901 Q902 Q903 Q904 Q905 Q906 Q912 Q913	C-30 C-29 C-29 B-31 F-21 F-20 H-20 G-20 F-19 J-32 J-25 K-29 K-25 J-30 J-30 K-24 K-24	H .			103 0 103 0			## P					Q1562.75 Q1562.25 Q151	0159 0160 0159 0160 0150 0154	R177		R27 R27 R22 R22 R24 R24 R24 R24 R24 R24 R24 R24	0109 0109 0109 0109 0109 0109 0109 0109	Tolor			[VOL BOARD]	- T	CNIOS	VOL LED BOARD D900 VOLIME INDICATOR I -635		

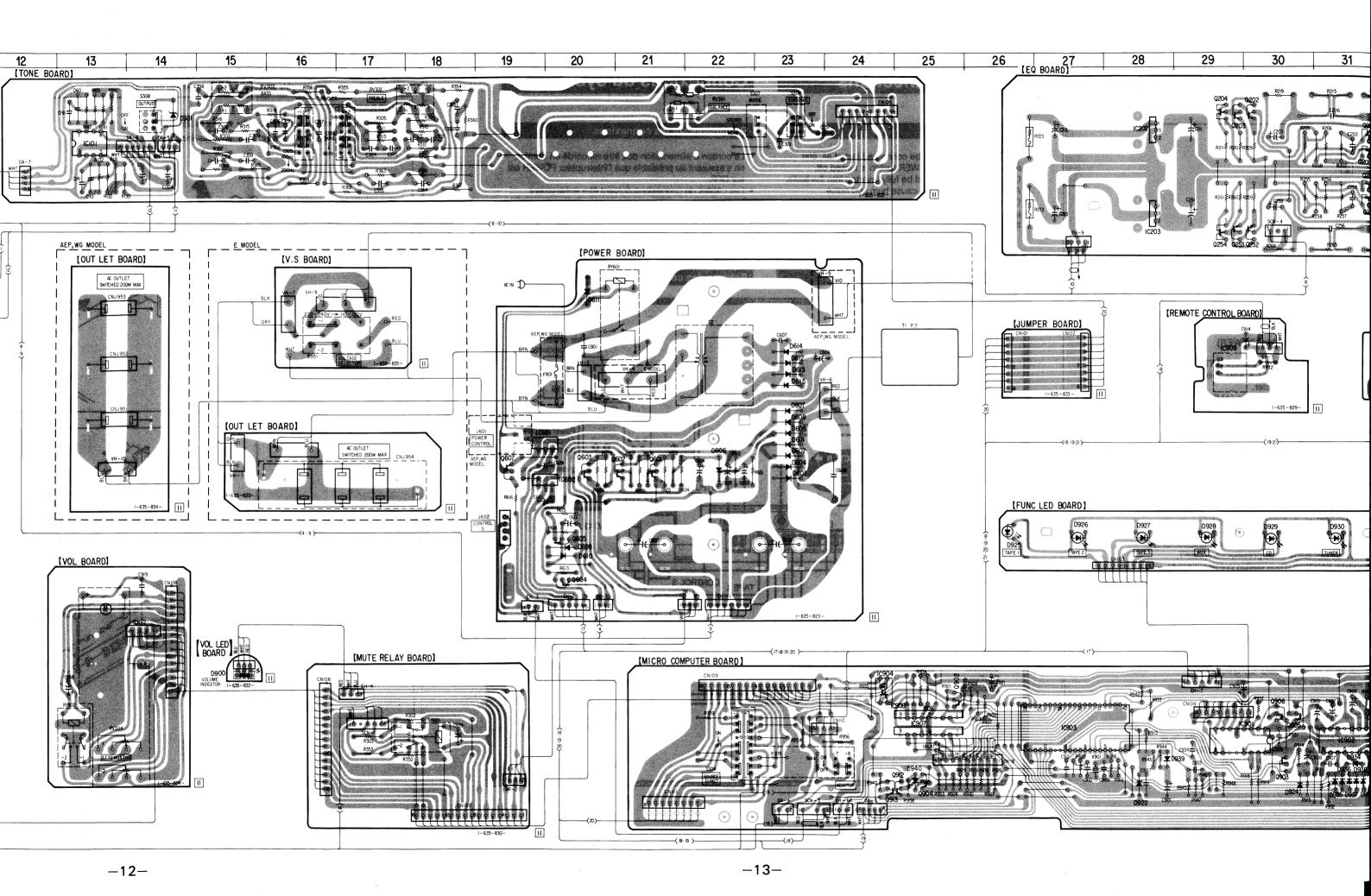


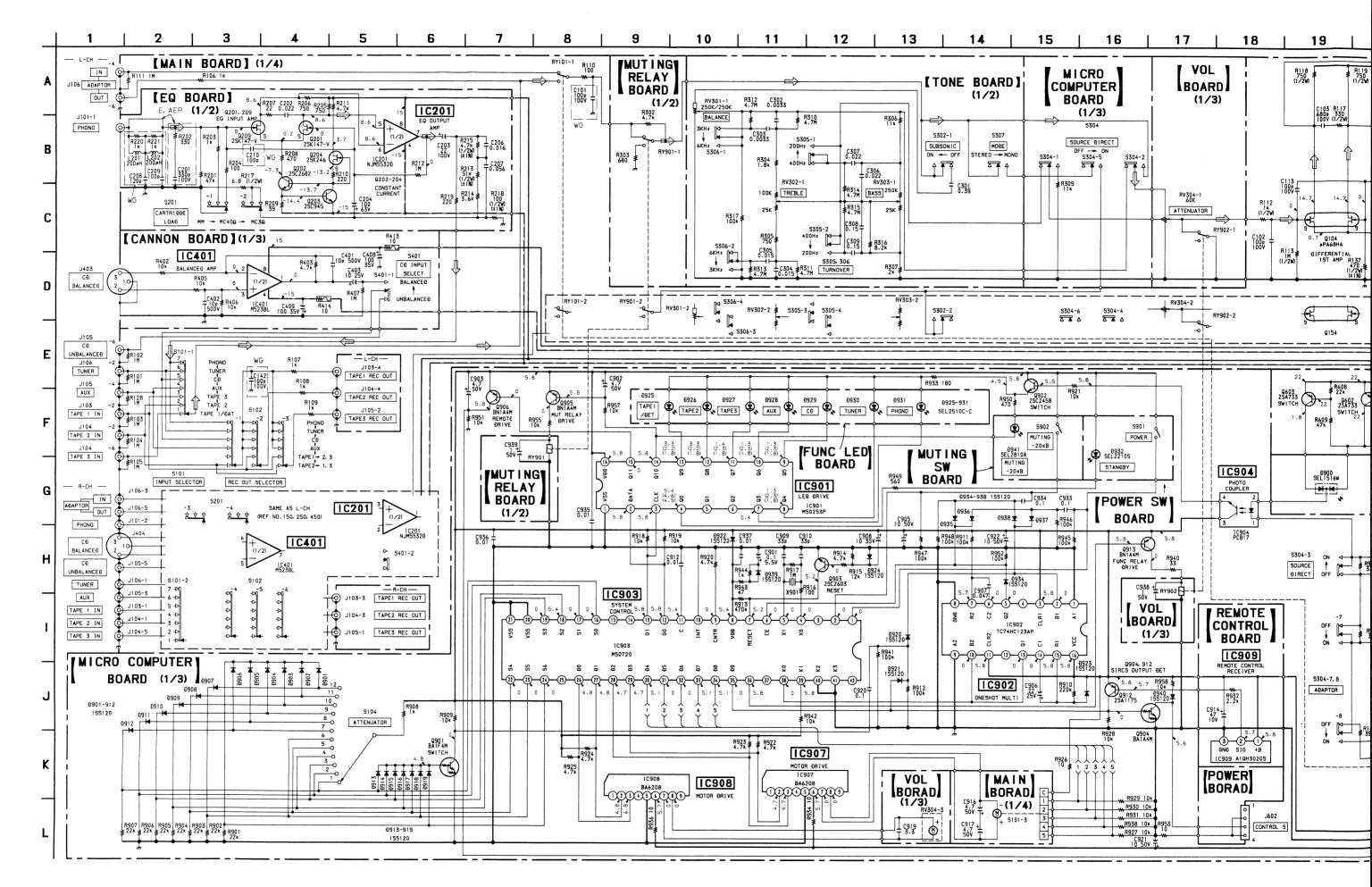
parts extracted from the component side.
 Pattern on the side which is seen.

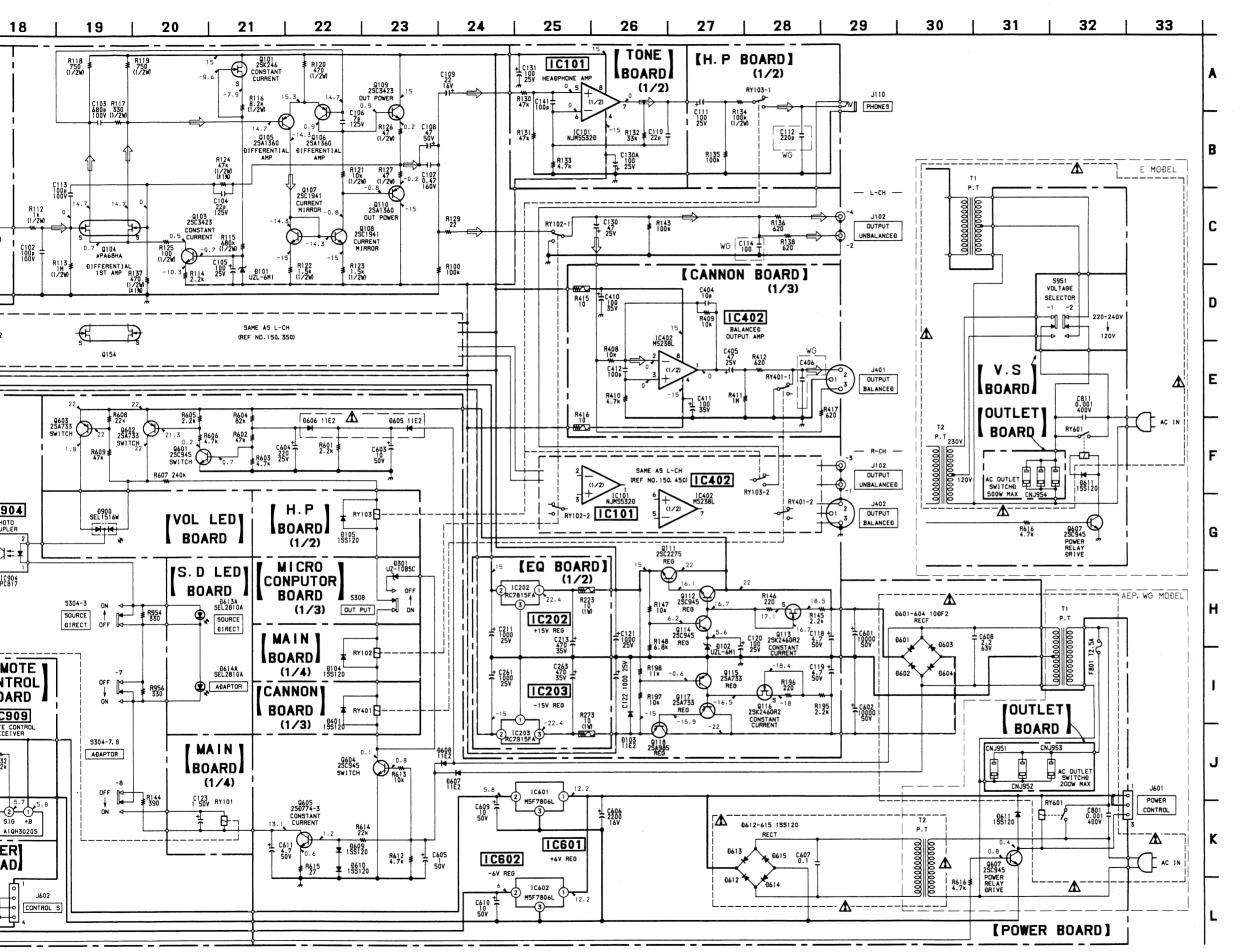
-10-

IC907, 908 BA6208

-11-







-17-

Mata

- All capacitors are in μF unless otherwise noted. pF: μμF
 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified
- % ; indicates tolerance.
- Components for right channel have same values as for left channel. Reference numbers are coded from 150 - 450.
- tusible resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

- : B + Line
- ===== : B − Line
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

no mark : PHONO

): ADAPTOR ON

< >: SOURCE DIRECT ON

- Voltages are taken with a VOM (10 MΩ/V).
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
- ⇒ : PHONO
- WG: West Germany

SECTION 4 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example: (RED) ... KNOB, BALANCE (WHITE)

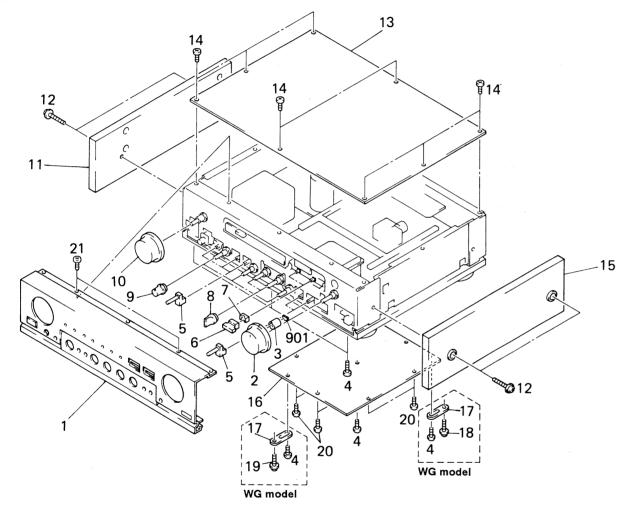
Parts Color

WG: West Germany

Cabinet's Color

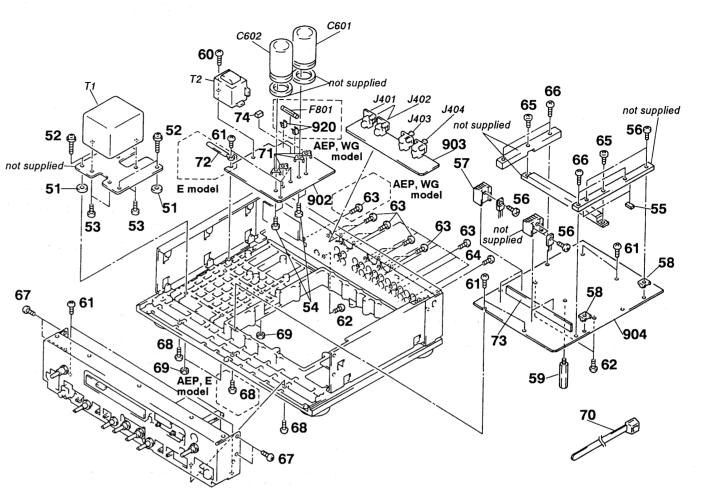
The components identified by mark \(\frac{\hat{\Lambda}}{\text{.}}\) or dotted line with mark \(\frac{\hat{\Lambda}}{\text{.}}\) are critical for safety. Replace only with part number specified.

(1) CABINET SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	A-4323-678-A	PANEL ASSY, FRONT		12	4-885-979-11	SCREW (4X25)	
2	x-4922-213-1	KNOB (VOL) ASSY		13	4-922-238-11	PLATE, TOP	
3	*4-901-919-00	HOUSE, LED LAMP		14	4-921-439-01	SCREW (M3X8), FLAT HEAD	
4	7-682-547-09	SCREW +BVTT 3X6 (S)				SONEW (NONO), TENT NEND	
5	4-923-879-01	BUTTON (DIA.4)		15	X-4922-216-1	(AEP,E)PANEL (R) ASSY, SIDE	
					X-4922-218-1	(WG)PANEL (R) ASSY, SIDE	
6	4-915-338-11	KNOB, SQUARE	-		x 1322 210 1	(Ma) ANEL (N) ASSI, SIDE	
7	4-864-307-00	RING		16	*4-922-227-01	PLATE, BOTTOM	
8	4-922-265-01	KNOB (FLAT-16)		17	*4-941-988-01	(WG)BRACKET (GROUND)	
9	4-922-266-01	KNOB (ROUND-16)		18	4-921-437-01	(WG)SCREW (M3X20), TAPPING	
10	4-922-264-01	KNOB (FUN)		19	7-685-648-79	(WG)SCREW TAPPING	
					7 003 040 73	(MG)SCREW TAFFING	
11	X-4922-215-1	(AEP,E)PANEL (L) ASSY, SIDE		20	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
	X-4922-217-1	(WG)PANEL (L) ASSY, SIDE		21	7-682-548-09	SCREW +B 3X8	
		, , , , , , , , , , , , , , , , , , , ,		901		PC BOARD. VOI LED	

(2) MAIN BOARD SECTION



supplied with J110

supplied with RV301 - 30

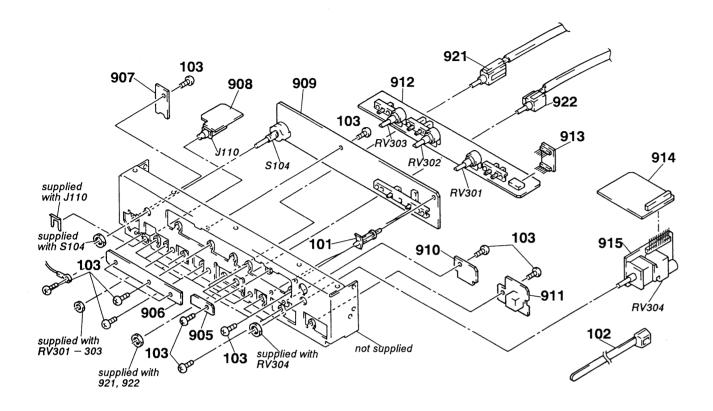
Part

*4-924 3-65! 7-68! *1-63!

*1 -635 *1 -635 *A-434 *1 -635 *1 -635

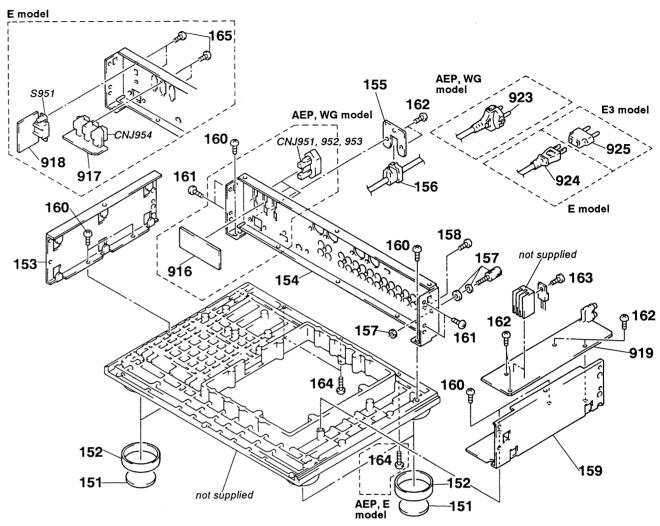
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51 52 53	4-931-976-01 7-682-566-09 7-682-561-09	WASHER (BS) SCREW +B 4X20 SCREW +B 4X8		902	*A-4341-159-A *A-4341-173-A		71,920,T2 71,T2
54 55	*4-931-964-01 *4-024-242-21	SCREW (M4X6) CUSHION, LID		903	*A-4341-156-A *A-4341-177-A		J401 -404 J401 -404
56 57 58	7-682-148-15 *4-921-402-01 4-924-264-01	SCREW, TR HEAT SINK TERMINAL, MOUNT		904	*A-4341-154-A *A-4341-175-A	(AEP,E)MOUNTED PCB, MAIN (WG)MOUNTED PCB, MAIN	56-58,73 56-58,73
59 60	*4-906-052-21 7-685-649-79	SUPPORT (B) SCREW +BVTP 3X14 TYPE2 S	LIT	920 C601 C602	<u></u>	(AEP,WG)HOLDER, FUSE CAP, ELECT 10000MF 20% CAP, ELECT 10000MF 20%	50V 50V
61	7-685-647-79 7-682-547-09	SCREW +BVTP 3X10 TYPE2 S SCREW +BVTT 3X6 (S)			∆. 1-532-286-00	(AEP, WG)FUSE, TIME-LAG	50 v
63 64 65	7-685-646-79 7-621-849-00 7-682-548-09	SCREW +BVTP 3X8 TYPE2 N SCREW, TAPPING SCREW +B 3X8	-S	J401 J402 J403	1-580-061-11 1-580-060-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 3P RECEPTACLE, CONNECTOR 3P	
66 67	7-685-651-79 7-682-547-09		_IT	J404 T1	1-580-060-11 ∆. 1-450-182-11	RECEPTACLE, CONNECTOR 3P	
68 69	7-682-549-09 7-684-024-04	SCREW +BVTT 3X10 (S) N 4, TYPE 2		ΤÌ	▲.1 -450-183-11	(AEP,WG)TRANSFORMER, POWER (E)TRANSFORMER, POWER	
70 71	3-655-653-21	BAND (TAITON), BINDING		T2 T2	⚠.1-450-184-11 ⚠.1-450-185-11	(AEP,WG)TRANSFORMER, POWER (E)TRANSFORMER, POWER	
72 73	*3-346-266-21 *4-908-882-01 *4-908-950-01	PLATE, GROUND (E)CLAMP PEINEODOCEMENT (A) DUB			· .		
74	*4-921-410-11	REINFORCEMENT (A), PWB CUSHION	· · · · · · · · · · · · · · · · · · ·		line with n	onents identified by mark 🕂 or c mark 🐧 are critical for safety. nly with part number specified.	dotted

(3) FRONT CHASSIS SECTION



emarks	No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
20,T2 1,T2	101 102 103	*4-924-098-31 3-655-653-21 7-682-547-09	HOLDER, PC BOARD BAND (TAITON), BINDING SCREW +BVTT 3X6 (S)		914	*1-635-833-11 *1-635-830-11 *1-635-824-11	PC BOARD, JUMPER PC BOARD, MUTE RELAY PC BOARD, VOL	
-404 -404	905 906	*1 -635-826-11 *1 -635-825-11			921 922	1-572-431-11 1-572-430-11	SWITCH, ROTARY SLIDE (REMOTE) SWITCH, ROTARY SLIDE (REMOTE)	
8,73 8,73	907 908 909 910	*1-635-827-11	PC BOARD, POWER SW PC BOARD, H.P MOUNTED PCB, MICRO COMPUTER PC BOARD, MUT SW	\$104	J110 RV301 RV302 RV303		JACK (PHONES) RES, VAR, CARBON 250K/250K (BALARES, VAR, CARBON 25K/100K (TREBLRES, VAR, CARBON 25K/250K (BASS)	.E)
0 V			PC BOARD, REMOTE CONTROL MOUNTED PCB, TONE	RV301-303	RV304 S104	1-241-186-11 1-572-095-11	RES, VAR, CARBON 60K/60K (ATTENU SWITCH, ROTARY (ATTENUATOR)	IATOR)

(4) MAIN CHASSIS SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151 152 153	4-908-888-01 4-923-882-02 *4-922-231-01			916 917 918	*1-635-834-11 *1-635-820-11 *1-635-835-11	(AEP,WG)PC BOARD, OUT LET (A (E)PC BOARD, OUTLET (E) (E)PC BOARD, V.S	Æ)
154	*4-922-260-01 *4-922-260-12			919		(AEP,E)MOUNTED PCB, EQ (WG)MOUNTED PCB, EQ	163 163
155 156 157 158 159	*4-923-873-01 A. 2-352-626-01 *4-935-253-01 7-621-849-00 *4-922-230-01	SCREW, TAPPING		924 925 ∆ CNJ9	⚠.1-575-953-11 ♠.1-559-297-31 ♠.1-569-007-11 51.1-526-794-11 52.1-526-794-11	(AEP,WG)CORD, POWER (E)CORD, POWER (E3)ADAPTOR, CONVERSION 2P (AEP,WG)OUTLET, AC (AEP,WG)OUTLET, AC	
160 161 162 163 164 165	7-685-647-79 7-682-547-09 7-685-751-09 7-682-148-15 7-685-876-09 7-685-646-79	SCREW +PTT 3X6 (S) SCREW, TR SCREW +BVTT 3X16 (S)		₩ CN78	53.1-526-794-11 54.1-540-043-11	(AEP,WG)OUTLET, AC (E)OUTLET, AC (NONPLAR)(3P) (E)SWITCH (VOLTAGE SELECTOR)	

Note: The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

RESISTORS

- All resistors are in ohms. F: nonflammable

COILS

• MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example: UA...: μΑ..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark or dotted line with mark are critical for safety.

Replace only with part number specified.

WG: West Germany

Ref.No.	Part No.	Description			Ref.No.	Part No.	Description			
901		PC BOARD, VOL LED			C119 C120	1-123-369-00 1-123-333-00	ELECT	4.7MF 100MF	20% 20%	50V 25V
902	*A-4341-159-A *A-4341-173-A	(AEP,WG)MOUNTED	PCB, POWER PCB, POWER		C121	1-125-641-11		1000MF	20% 20%	25V 25V
903	*A-4341 -156-A *A-4341 -177-A	(AEP,E)MOUNTED (WG)MOUNTED	PCB, CANNON PCB, CANNON		C123	1-126-044-11	ELECT	1 MF	20%	50V
904	*A-4341 -154-A *A-4341 -175 - A	(AEP,E)MOUNTED (WG)MOUNTED	PCB, MAIN PCB, MAIN			1-123-332-00 1-123-333-00	ELECT	47MF 100MF	20% 20%	25V 25V
905 906 907	*1 -635-826-11 *1 -635-825-11 *1 -635-830-11	PC BOARD, S.D LED PC BOARD, FUNC LED PC BOARD, POWER SW			C131 C141 C142	1-123-333-00 1-162-282-31 1-136-808-11		100MF 100PF 100PF	20% 10% 5%	25V 50V 100V
908 909 910	*1-635-827-11 *A-4341-157-A *1-635-828-11	PC BOARD, H.P MOUNTED PCB, MICRO PC BOARD, MUT SW) COMPUTER		C151 C152 C153	1-136-808-11 1-136-808-11 1-136-813-11	(WG)FILM FILM FILM	100PF 100PF 680PF	5% 5% 5%	1 00V 1 00V 1 00V
911 912 913	*1 -635-829-11 *A-4341-158-A *1 -635-833-11		ONTROL		C154 C155 C156	1-104-327-11 1-123-333-00 1-104-326-11	POLYSTYRENE ELECT POLYSTYRENE	22PF 100 MF 7PF	10% 20% 1PF	1 25V 25V 1 25V
914 915 916	*1-635-830-11 *1-635-824-11 *1-635-834-11	PC BOARD, MUTE REL PC BOARD, VOL (AEP, WG)PC BOAR		ΔF)	C157 C158 C159	1-136-962-11 1-124-910-11 1-123-330-00	FILM ELECT ELECT	0.47MF 47MF 22MF	10% 20% 20%	160V 50V 16V
917 918	*1-635-820-11 *1-635-835-11	(E)PC BOARD, OU (E)PC BOARD, V.	TLET (E)	AL)	C160 C161 C162	1-162-282-31 1-123-333-00 1-162-286-11	CERAMIC ELECT (WG)CERAM	100PF 100MF IC 220PF	5% 20% 10%	50V 25V 50V
919	*A-4341-155-A *A-4341-176-A	(AEP,E)MOUNTED (WG)MOUNTED		163 163	C163 C164 C180	1-110-335-11 1-136-808-11 1-123-332-00	MYLAR (WG)FILM ELECT	100PF 100PF 47MF	5% 5% 20%	50V 1 00V 25V
920 <i>/</i> 921 922	∆*1 -533-213-31 1 -572-431-11 1 -572-430-11	(AEP,WG)HOLDER, SWITCH, ROTARY SLI SWITCH, ROTARY SLI	DE (REMOTE)		C191 C192 C201	1-162-282-31 1-136-808-11 1-136-811-11	CERAMIC (WG)FILM (AEP,E)FI	1 00PF 1 00PF	10% 5% 5%	50V 100V 100V
924	1.1-575-953-11 1.1-559-297-31 1.1-569-007-11	(AEP,WG)CORD, P (E)CORD, P (E3)ADAPTOR, CO	OWER		C202 C203 C204	1-130-487-00 1-124-748-11 1-124-130-00	MYLAR ELECT	0.022MF 22MF 100MF	5% 20% 20%	50V 100V 63V
C1 01 C1 02 C1 03	1 -1 36 -808 -1 1 1 -1 36 -808 -1 1 1 -1 36 -81 3 -1 1	(WG)FILM 100PF FILM 100PF FILM 680PF	5%	1 00V 1 00V 1 00V	C206 C207 C208	1-136-304-11 1-136-305-11 1-162-283-11	FILM FILM (WG)CERAM	0.016MF 0.056MF	2% 2% 10%	0 0 0 50V
C1 04 C1 05 C1 06	1-104-327-11 1-123-333-00 1-104-326-11	POLYSTYRENE 22PF ELECT 100MF POLYSTYRENE 7PF	10% 20% 1PF	1 25 V 25 V 1 25 V	C209 C210 C211	1-162-282-11 1-110-335-11 1-124-557-11	(WG)CERAM (WG)FILM ELECT	IC 100PF	10% 10% 5% 20%	50V 50V 50V 25V
C1 07 C1 08 C1 09	1-136-962-11 1-124-910-11 1-123-330-00	FILM 0.47M ELECT 47MF ELECT 22MF	F 10% 20% 20%	160V 50V 16V	C213 C251	1-124-713-11 1-136-811-11	ELECT (AEP,E)FI	470MF LM 330PF	20% 5% 5%	35V 100V
C110 C111 C112	1-161-263-11 1-123-333-00 1-162-286-11	CERAMIC 22PF ELECT 100MF (WG)CERAMIC 22		50V 25V 50V	C252 C253 C254		ELECT ELECT	0.022MF 22MF 100MF	20% 20%	50V 100V 63V
C113 C114 C118	1-110-335-11 1-136-808-11 1-123-369-00	MYLAR 100PF (WG)FILM 100PF ELECT 4.7MF	5% 5% 20%	50V 100V 50V	C256 C257	1-136-304-11 1-136-305-11		0.016MF 0.056MF	2% 2%	0

Ref.No.	Part No.	Description			ı	Ref.No.	Part No.	Description			
C258 C259 C260	1-162-283-11 1-162-282-11 1-110-335-11	(WG)CERAM (WG)CERAM (WG)FILM	IC 100PF	10% 10% 5%	50V 50V 50V	C903 C905 C906	1-124-927-11 1-123-875-11 1-126-233-11	ELECT ELECT ELECT	4.7MF 10MF 22MF	20% 20% 20%	50V 50V 25V
C261 C263 C301	1-124-557-11 1-124-713-11 1-136-172-00	ELECT	1000MF 470MF 0.39MF	20% 20% 5%	25V 35V 50V	C907 C908 C909	1-136-161-00 1-126-096-11 1-102-963-00	FILM ELECT CERAMIC	0.047MF 10MF 33PF	5% 20% 5%	50V 35V 50V
C302 C303 C304	1 -1 30-477-00 1 -1 30-477-00 1 -1 30-485-00	MYLAR	0.0033MF 0.0033MF 0.015MF	5% 5% 5%	50V 50V 50V	C910 C912 C914	1-102-963-00 1-161-379-00 1-126-022-11	CERAMIC CERAMIC ELECT	33PF 0.01MF 47MF	5% 30% 20%	50V 16V 10V
C305 C306 C307	1 -1 30-485-00 1 -1 30-487-00 1 -1 30-487-00		0.015MF 0.022MF 0.022MF	5% 5% 5%	50V 50V 50V	C916 C917 C919	1 -1 24-045-00 1 -1 24-045-00 1 -1 24-273-00	ELECT	4.7MF 4.7MF 3.3MF	20% 20% 20%	50V 50V 50V
C308 C309 C331	1-136-167-00 1-136-167-00 1-162-282-11		0.15MF 0.15MF IC 100PF	5% 5% 10%	50V 50V 50V	C920 C921 C922	1-136-165-00 1-123-875-11 1-123-875-11	FILM ELECT ELECT	0.1MF 1OMF 1OMF	5% 20% 20%	50 V 50 V 50 V
C351 C352 C353	1-136-172-00 1-130-477-00 1-130-477-00	MYLAR	0.39MF 0.0033MF 0.0033MF	5% 5% 5%	50V 50V 50V	C933 C934 C935	1 -1 36 -1 65 -00 1 -1 36 -1 65 -00 1 -1 61 -379 -00		0.1 MF 0.1 MF 0.01 MF	5% 5% 30%	50V 50V 16V
C354 C355 C356	1 -1 30 -485 -00 1 -1 30 -485 -00 1 -1 30 -487 -00	MYLAR MYLAR MYLAR	0.015MF 0.015MF 0.022MF	5% 5% 5%	50V 50V 50V	C936 C937 C938 C939	1-161-379-00 1-161-379-00 1-124-791-11 1-124-791-11	CERAMIC CERAMIC ELECT ELECT	0.01MF 0.01MF 1MF 1MF	30% 30% 20% 20%	16V 16V 50V 50V
C357 C358 C359	1-130-487-00 1-136-167-00 1-136-167-00	FILM	0.022MF 0.15MF 0.15MF	5% 5% 5%	50V 50V 50V	CN1 02	*1-564-599-11 *1-564-599-11 *1-562-573-11	PIN, CONNECT PIN, CONNECT SOCKET, CONN	OR 8P		
C381 C401 C402	1-162-282-11 1-107-202-00 1-107-202-00	(WG)CERAM MICA MICA	IC 100PF 10PF 10PF	10% 0.5PF 0.5PF	50V 500V 500V	CN1 05	*1-566-878-11 *1-565-484-11 1-568-118-11	PIN, CONNECT CONNECTOR, B SOCKET, CONN	OARD TO BOAR		
C403 C404 C405	1-123-356-00 1-162-199-31 1-123-332-00	CERAMIC	1 OMF 1 OPF 47MF	20% 5% 20%	25V 50V 25V	CN1 09	*1-568-204-11 1-568-118-11 *1-568-204-11	PIN, CONNECT SOCKET, CONN PIN, CONNECT	ECTOR 16P		
C406 C408 C409	1-136-808-11 1-123-345-00 1-123-345-00	(WG)FILM ELECT ELECT	1 00PF 1 00MF 1 00MF	5% 20% 20%	1 00V 35V 35V	CN111	1-568-577-11 *1-562-573-11 *1-565-835-11	PIN, CONNECT SOCKET, CONN SOCKET, CONN	ECTOR 8P)) 3P	
C410 C411 C412	1-123-345-00 1-123-345-00 1-162-282-31	ELECT	100MF 100MF 100PF	20% 20% 10%	35V 35V 50V	<u>A</u> CNJ952 <u>A</u> CNJ953	1.1-526-794-11 2.1-526-794-11 3.1-526-794-11 4.1-540-043-11	(AEP,WG)0 (AEP,WG)0 (AEP,WG)0 (E)OUTLET	UTLET, AC UTLET, AC	ID \ / 3D \	
C451 C452 C453	1-107-202-00 1-107-202-00 1-123-356-00	MICA	1 OPF 1 OPF 1 OMF	0.5PF 0.5PF 20%	500V 500V 25V	D1 01 D1 02	8-71 9-933-36 8-71 9-933-36	DIODE HZS6B1 DIODE HZS6B1	L	K/(Jr/	
C454 C455 C456	1-162-199-31 1-123-332-00 1-136-808-11	CERAMIC ELECT (WG)FILM	1 OPF 47MF 1 OOPF	5% 20% 5%	50V 25V 100V	D1 03 D1 04 D1 05	8-719-912-20	DIODE 1SS120 DIODE 1SS120			
C462 C601 C602	1-162-282-31 1-125-640-11 1-125-640-11	CERAMIC ELECT ELECT	100PF 10000MF 10000MF	10% 20% 20%	50V 50V 50V	D151 D301 D401	8-719-933-36 8-719-011-93 8-719-912-20	DIODE HZS6B1 DIODE UZ-10B DIODE 1SS120 DIODE UOSG	SC		
C603 C604 C605	1-126-059-11 1-126-024-11 1-126-044-11	ELECT ELECT ELECT	1 OMF 22 OMF 1 MF	20% 20% 20%	50V 25V 50V	D602 A	A.8-719-911-55 A.8-719-911-55 A.8-719-911-55	DIODE UOSG DIODE UOSG DIODE UOSG			
	1-124-556-11 A.1-136-165-00 A.1-137-168-11		2200MF 0.1 MF 2.2MF	20% 5% 10%	16V 50V 63V	D605 A	A.8-719-200-82 A.8-719-200-82 8-719-200-82	DIODE 11ES2 DIODE 11ES2			
C609 C610 C611	1-126-059-11 1-126-059-11 1-124-927-11	ELECT	1 OMF 1 OMF 4.7MF	20% 20% 20%	50V 50V 50V	D608 D609 D610	8-719-200-82 8-719-912-20				
C801 <i>A</i> C901 C902	1-161-741-00 1-125-548-11 1-124-927-11	ELECT	0.001MF 0.1F 4.7MF	10%	400V 5.5V 50V		0 713 312-20	0100L 133120			

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref.No.	Part No.	Description
D611	8-719-912-20	DIODE 155120
D612 <u>A</u>	3-8-719-200-82	DIODE 11ES2
	8-719-200-82 8-719-301-52	DIODE 11ES2 DIODE SEL281OA-C
D614 <u>A</u>	8-719-200-82	DIODE 11ES2
D614A	8-719-301-52	DIODE SEL281OA-C
D615	8-719-200-82	DIODE 11ES2
D900	8-719-313-40	DIODE SEL1516W
D901	8-719-912-20	DIODE 1SS120
D902	8-719-912-20	DIODE 1SS120
D903	8-719-912-20	DIODE 1SS120
D904	8-719-912-20	DIODE 1SS120
D905	8-719-912-20	DIODE 1SS120
D906	8-719-912-20	DIODE 1SS120
D907	8-719-912-20	DIODE 1SS120
D908	8-719-912-20	DIODE 1SS120
D909	8-719-912-20	DIODE 1SS120
D910	8-719-912-20	DIODE 1SS120
D911	8-719-912-20	DIODE 1SS120
D912	8-719-912-20	DIODE 1SS120
D913	8-719-912-20	DIODE 1SS120
D914	8-719-912-20	DIODE 1SS120
D915	8-719-912-20	DIODE 1SS120
D916	8-719-912-20	DIODE 1SS120
D91 7	8-719-912-20	DIODE 1SS120
D91 8	8-719-912-20	DIODE 1SS120
D91 9	8-719-912-20	DIODE 1SS120
D920	8-719-912-20	DIODE 1SS120
D921	8-719-912-20	DIODE 1SS120
D922	8-719-912-20	DIODE 1SS120
D923	8-71 9-91 2-20	DIODE 1SS120
D924	8-71 9-91 2-20	DIODE 1SS120
D925	8-71 9-303-00	DIODE SEL2510C
D926	8-719-303-00	DIODE SEL2510C
D927	8-719-303-00	DIODE SEL2510C
D928	8-719-303-00	DIODE SEL2510C
D929	8-71 9-303-00	DIODE SEL2510C
D930	8-71 9-303-00	DIODE SEL2510C
D931	8-71 9-303-00	DIODE SEL2510C
D932	8-719-301-38	DIODE SEL2210S-C
D934	8-719-912-20	DIODE 1SS120
D935	8-719-912-20	DIODE 1SS120
D936	8-719-912-20	DIODE 1SS120
D937	8-719-912-20	DIODE 1SS120
D938	8-719-912-20	DIODE 1SS120
D939	8-719-912-20	DIODE 1SS120
D940	8-719-912-20	DIODE 1SS120
D941	8-719-301-52	DIODE SEL2810A-C
DR1	*1 -564-337-21	PIN, CONNECTOR 3P
DR2	*1 -564-337-21	PIN, CONNECTOR 3P
DR3	*1 -564-337-00	PIN, CONNECTOR 3P
DR4	*1 -564-338-31	PIN, CONNECTOR 4P
DR5	*1 -564-338-21	PIN, CONNECTOR 4P
DR6	*1 -564-337-21	PIN, CONNECTOR 3P
DR7	*1 -564-337-21	PIN, CONNECTOR 3P
DR8	*1 -564-340-00	PIN, CONNECTOR 6P
DR9	*1 -564-337-00	PIN, CONNECTOR 3P
DR1 0	*1 -564-705-41	PIN, CONNECTOR 3P

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Ref.No. Part No.
                            Description
          *1-564-509-11 PLUG, CONNECTOR 6P
*1-564-508-11 PLUG, CONNECTOR 5P
*1-564-505-11 PLUG, CONNECTOR 2P
  EH3
         *1 -564-506-11
  FH4
                            PLUG, CONNECTOR 3P
         *1-564-506-11 PLUG, CONNECTOR 3P
  EH5
  EH6A *1-564-505-11 PLUG, CONNECTOR 2P
EH6 *1-564-507-11 PLUG, CONNECTOR 4P
                            PLUG, CONNECTOR 5P
PLUG, CONNECTOR 9P
PLUG, CONNECTOR 3P
          *1 -564-508-11
          *1-564-512-11
  EH8
         *1-564-506-11
  EH10 *1-564-510-11
EH14 *1-564-510-11
EH15 *1-564-507-11
                            PLUG, CONNECTOR 7P
PLUG, CONNECTOR 7P
PLUG, CONNECTOR 4P
                            PLUG, CONNECTOR 6P
PLUG, CONNECTOR 3P
PLUG, CONNECTOR 9P
  EH17 *1-564-509-11
  EH18 *1-564-506-11
  EH19 *1-564-512-11
                            PLUG, CONNECTOR 2P
PLUG, CONNECTOR 3P
  EH20 *1-564-505-11
  EH21 *1-564-506-11
  F801 A.1-532-286-00 (AEP, WG)...FUSE, TIME-LAG
  IC101 8-759-982-03
                            IC RC5532DD
  IC201 8-759-982-03
                            IC RC5532DD
  IC202 8-759-982-15
                            IC RC7815FA
  IC203 8-759-982-41
                            IC RC7915FA
  IC401
           8-759-604-28
                            IC M5238L
                            IC M5238L
  IC402 8-759-604-28
  10601 8-759-604-84
                            TC M5F78061
           8-759-604-84 IC M5F7806L
  TC602
  IC901
           8-759-635-31
                            IC M50253P
  IC902 8-759-239-47
                            IC TC74HC123AP
           8-759-635-30 IC M50720-194SP
  IC903
           8-719-902-56
  IC904
                            DIODE PC817
  IC907 8-759-962-08 IC BA6208
IC908 8-759-962-08 IC BA6208
IC909 8-749-920-59 IC AlQH302
                            IC BA6208
IC A1QH3020S
                            JACK, PIN 2P
JACK, PIN 4P
JACK, PIN 4P
  J1 01
           1-580-054-11
  J102
           1-566-882-41
           1-566-882-41
                            JACK, PIN 6P
JACK, PIN 6P
JACK, PIN 6P
  J104
           1-566-883-31
           1-566-883-41
  J1 05
          1-566-883-41
  .11.06
  J110
           1-507-796-71
                             JACK (PHONES)
                            PLUG, CONNECTOR 3P
PLUG, CONNECTOR 3P
           1-580-061-11
  J401
           1-580-061-11
  J402
                             RECEPTACLE, CONNECTOR 3P
           1-580-060-11
         1-580-060-11
  1404
                            RECEPTACLE, CONNECTOR 3P
                            (AEP, WG)...SOCKET, CONNECTOR 3P
(POWER CONTROL)
  J601 *1-569-626-11
                            PIN, CONNECTOR 4P (CONTROL S)
  J602
          1-564-980-11
  L201
           1-424-397-11
                             (WG)...COIL CHOKE 200UH
           1-424-397-11
                             (WG)...COIL CHOKE 200UH
  L202
  L251
           1-424-397-11
                             (WG)...COIL CHOKE 200UH
           1-424-397-11
                             (WG)...COIL CHOKE 200UH
  L252
  0101
           8-729-201 -56
                             TRANSISTOR 2SK246-GR2
           8-729-203-45
                             TRANSISTOR 2SC3423
  Q103
  Q104
           8-759-108-01
                             TRANSISTOR UPA68HA-M
  Q1 05
                            TRANSISTOR 2SA1360
           8-729-209-17
                            TRANSISTOR 2SA1360
TRANSISTOR 2SC1941-LK
           8-729-209-17
  0106
  0107
           8-729-142-01
```

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref.No.	Part No.	Description	on		Ref.No.	Part No.	Description			
Q108 Q109 Q110	8-729-142-01 8-729-203-45 8-729-209-17	TRANSISTOR	2SC3423		R112 R113 R114	1-249-673-11 1-214-937-00 1-247-717-11	CARBON	1K 1M 2.2K	5% 5% 5%	1/2W 1/2W 1/4W
Q111 Q112 Q113	8-729-127-53 8-729-119-78 8-729-201-56	TRANSISTOR	R 2SC2275-P R 2SC2785-HFE R 2SK246-GR2		R115 R116 R117	1 -249-798-11 1 -249-824-11 1 -249-661-11	CARBON	680 8.2K 330	5% 5% 5%	1/2W 1/2W 1/2W
Q114 Q115 Q116	8-729-119-78 8-729-141-03 8-729-201-56	TRANSISTOR	2SC2785-HFE 2SA733-QP 2SK246-GR2		R118 R119 R120	1-249-799-11 1-249-799-11 1-247-747-11	CARBON	750 750 470	5% 5% 5%	1/2W 1/2W 1/2W
Q11 <i>7</i> Q118 Q151	8-729-141-03 8-729-190-53 8-729-201-56	TRANSISTOR	2SA733-QP 2SA985A 2SK246-GR2		R121 R122 R123	1-247-764-11 1-249-677-11 1-249-677-11	CARBON	10K 1.5K 1.5K	5% 5% 5%	1/2W 1/2W 1/2W
Q153 Q154 Q155	8-729-203-45 8-759-108-01 8-729-209-17	TRANSISTOR TRANSISTOR TRANSISTOR	UPA68HA-M		R1 24 R1 25 R1 26	1 -259-571 -11 1 -247-739-11 1 -249-641 -11	CARBON	4.7K 100 47	1 % 5% 5%	1/2W 1/2W 1/2W
Q1 56 Q1 57 Q1 58	8-729-209-17 8-729-142-01 8-729-142-01		2SA1360 2SC1941-LK 2SC1941-LK		R127 R128 R129	1-249-641-11 1-246-545-00 1-249-512-11	CARBON	47 1 M 22	5% 5% 5%	1/2W 1/4W 1/4W
Q159 Q160 Q201	8-729-203-45 8-729-209-17 8-729-214-73	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1360		R1 30 R1 31 R1 32	1-249-465-11 1-249-465-11 1-249-497-11		47K 47K 33K	5% 5% 5%	1/4W 1/4W 1/4W
Q202 Q203 Q204	8-729-805-05 8-729-119-78 8-729-201-56		2SC3601 2SC2785-HFE 2SK246-GR2		R1 33 R1 34 R1 35	1 -247 -721 -11 1 -247 -739 -11 1 -259 -476 -11	CARBON	4.7K 100 100K	5% 5% 5%	1/4W 1/2W 1/6W
Q209 Q251 Q252	8-729-214-73 8-729-214-73 8-729-805-05	TRANSISTOR TRANSISTOR TRANSISTOR	2SK147-V	·	R1 36 R1 37 R1 38	1-249-547-11 1-259-547-11 1-249-547-11	CARBON CARBON CARBON	620 470 620	5% 1% 5%	1/4W 1/2W 1/4W
Q253 Q254 Q259	8-729-119-78 8-729-201-56 8-729-214-73		2SC2785-HFE 2SK246-GR2 2SK147-V		R143 R144 R145	1-249-469-11 1-247-707-11 1-247-717-11	CARBON CARBON CARBON	1 00K 390 2.2K	5% 5% 5%	1/4W 1/4W 1/4W
Q601 Q602 Q603	8-729-194-57 8-729-141-03 8-729-141-03	TRANSISTOR TRANSISTOR TRANSISTOR	2SA733-QP		R1 46 R1 47 R1 48	1-247-704-11 1-247-725-11 1-247-723-11	CARBON CARBON CARBON	220 10K 6.8K	5% 5% 5%	1/4W 1/4W 1/4W
Q604 Q605 Q607	8-729-1 94-57 8-729-1 40-96 8-729-1 94-57	TRANSISTOR TRANSISTOR TRANSISTOR	2SD774-34		R150 R151 R152	1-249-469-11 1-246-545-00 1-246-545-00	CARBON	100K 1M 1M	5% 5% 5%	1/4W 1/4W 1/4W
Q901 Q902 Q903	8-729-900-36 8-729-119-78 8-729-620-05	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785-HFE		R153 R154 R155	1-246-545-00 1-246-545-00 1-246-545-00	CARBON	1 M 1 M 1 M	5% 5% 5%	1/4W 1/4W 1/4W
Q904 Q905 Q906	8-729-900-80 8-729-900-61 8-729-900-61	TRANSISTOR TRANSISTOR TRANSISTOR	DTAI14ES		R156 R157 R158	1-247-713-11 1-247-713-11 1-247-713-11	CARBON CARBON CARBON	1K 1K 1K	5% 5% 5%	1/4W 1/4W 1/4W
Q91 2 Q91 3	8-729 - 119-77 8-729-900-61	TRANSISTOR TRANSISTOR	2SAll75-FEK DTAll4ES		R1 59 R1 60 R1 61	1-247-713-11 1-247-713-11 1-246-545-00	CARBON CARBON CARBON	1K 1K 1M	5% 5% 5%	1/4W 1/4W 1/4W
R1 01	1-246-545-00	CARBON CARBON CARBON	100K 5% 1M 5% 1M 5%	1/4W 1/4W 1/4W	R162 R163	1-249-673-11 1-214-937-00 1-247-717-11	CARBON CARBON CARBON	1K 1M 2.2K	5% 5% 5%	1/2W 1/2W
R1 04	1-246-545-00	CARBON CARBON CARBON	1M 5% 1M 5% 1M 5%	1/4W 1/4W 1/4W	R165 R166	1-249-798-11 1-249-824-11	CARBON CARBON CARBON	680 8.2K 330	5% 5% 5%	1/4W 1/2W 1/2W 1/2W
R1 07	1-247-713-11 0	CARBON CARBON CARBON	1K 5% 1K 5% 1K 5%	1/4W 1/4W 1/4W	R168 R169	1-249-670-91 1-249-670-91	CARBON CARBON CARBON	750 750 470	5% 5% 5%	1/2W 1/2W 1/2W
R110	1-247 - 700-11 C	CARBON CARBON CARBON	1K 5% 100 5% 1M 5%	1/4W 1/4W 1/4W	R1 71 R1 72	1-247-764-11 1-249-677-11	CARBON CARBON	10K 1.5K	5% 5% 5%	1/2W 1/2W 1/2W 1/2W

Ref.No.	Part No.	Description			ı	Ref.No.	Part No.	Description			
R1 74	1-259-571-11	CARBON	4.7K	1 %	1/2W	R270	1-249-417-11	(WG)CARBON		5%	1/4W
R1 75	1-247-739-11	CARBON	100	5 %	1/2W	R271	1-249-417-11	(WG)CARBON		5%	1/4W
R1 76	1-249-641-11	CARBON	47	5 %	1/2W	R273	1-217-481-00	FUSIBLE		5%	1W F
R1 77	1-249-641-11	CARBON	47	5 %	1/2W	R302	1-247-721-11	CARBON		5%	1/4W
R1 78	1-246-545-00	CARBON	1 M	5%	1/4W	R303	1-249-598-00	CARBON	680	5%	1/4W
R1 79	1-249-512-11	CARBON	22	5%	1/4W	R304	1-247-716-11	CARBON	1.8K	5%	1/4W
R1 80	1-249-465-11	CARBON	47K	5%	1/4W	R305	1-247-128-00	CARBON	750	5%	1/4W
R181	1-249-465-11	CARBON	47K	5%	1/4W	R306	1-249-577-11	CARBON	11K	5%	1/4W
R182	1-249-497-11	CARBON	33K	5%	1/4W	R307	1-247-138-00	CARBON	2K	5%	1/4W
R183	1-247-721-11	CARBON	4.7K	5%	1/4W	R309	1-249-577-11	CARBON	11K	5%	1/4W
R184	1-247-739-11	CARBON	100	5%	1/2W	R310	1-259-502-11	CARBON	4.7M	5%	1/4W
R185	1-259-476-11	CARBON	100K	5%	1/6W	R311	1-259-502-11	CARBON	4.7M	5%	1/4W
R186	1-249-547-11	CARBON	620	5%	1/4W	R312	1-259-502-11	CARBON	4.7M	5%	1/4W
R187	1-259-547-11	CARBON	470	1 %	1/2W	R31 3	1,-259-502-11	CARBON	4.7M	5%	1/4W
R188	1-249-547-11	CARBON	620	5 %	1/4W	R31 4	1-259-502-11	CARBON	4.7M	5%	1/4W
R195	1-247-717-11	CARBON	2.2K	5 %	1/4W	R31 5	1-259-502-11	CARBON	4.7M	5%	1/4W
R196	1-247-704-11	CARBON	220	5%	1/4W	R316	1-247-152-00	CARBON	8.2K	5%	1/4W
R197	1-247-725-11	CARBON	10K	5%	1/4W	R317	1-249-469-11	CARBON	100K	5%	1/4W
R198	1-249-577-11	CARBON	11K	5%	1/4W	R352	1-249-465-11	CARBON	47K	5%	1/4W
R201	1-249-465-11	CARBON	47K	5%	1/4W	R353	1-247-152-00	CARBON	8.2K	5%	1/4W
R202	1-247-706-11	(AEP,E)CAR	BON	330	5% 1/4W	R354	1-247-716-11	CARBON	1.8K	5%	1/4W
R203	1-247-713-11	CARBON	1K	5%	1/4W	R355	1-247-128-00	CARBON	750	5%	1/4W
R204	1-247-700-11	CARBON	1 00	5%	1/4W	R356	1-249-577-11	CARBON	11K	5%	1/4W
R205	1-247-128-00	CARBON	750	5%	1/4W	R357	1-247-138-00	CARBON	2K	5%	1/4W
R206	1-247-128-00	CARBON	750	5%	1/4W	R359	1-249-577-11	CARBON	11K	5%	1/4W
R207	1-249-512-11	CARBON	22	5%	1/4W	R360	1-259-502-11	CARBON	4.7M	5%	1/4W
R208	1-247-708-11	CARBON	470	5%	1/4W	R361	1-259-502-11	CARBON	4.7M	5%	1/4W
R209	1-249-518-11	CARBON	39	5%	1/4W	R362	1-259-502-11	CARBON	4.7M	5%	1/4W
R210	1-247-704-11	CARBON	220	5%	1/4W	R363	1-259-502-11	CARBON	4.7M	5%	1/4W
R211	1-247-721-11	CARBON	4.7K	5%	1/4W	R364	1-259-502-11	CARBON	4.7M	5%	1/4W
R212	1-246-545-00	CARBON	1 M	5%	1/4W	R365	1-259-502-11	CARBON	4.7M	5%	1/4W
R213	1-249-843-11	CARBON	51K	1 %	1/2W	R366	1-247-152-00	CARBON	8.2K	5%	1/4W
R214	1-247-144-00	CARBON	3.6K	1 %	1/4W	R367	1-249-469-11	CARBON	100K	5%	1/4W
R215	1-249-818-11	CARBON	4.7K	1 %	1/2W	R402	1-247-725-11	CARBON	10K	5%	1/4W
R217	1-259-501-11	CARBON	6.8	5%	1/2W	R403	1-247-721-11	CARBON	4.7K	5%	1/4W
R218	1-247-739-11	CARBON	100	5%	1/2W	R405	1-247-725-11	CARBON	10K	5%	1/4W
R219	1-247-704-11	CARBON	220	5%	1/4W	R406	1-247-725-11	CARBON	10K	5%	1/4W
R220	1-249-417-11	(WG)CARBON		5%	1/4W	R407	1-246-545-00	CARBON	1 M	5%	1/4W
R221	1-249-417-11	(WG)CARBON		5%	1/4W	R408	1-247-725-11	CARBON	1 OK	5%	1/4W
R223	1-217-481-00	FUSIBLE		5%	1W F	R409	1-247-725-11	CARBON	1 OK	5%	1/4W
R251	1-249-465-11	CARBON	47K	5%	1/4W	R410	1-247-721-11	CARBON	4.7K	5%	1/4W
R252	1-247-706-11	(AEP,E)CAR	BON	330	5% 1/4W	R411	1-246-545-00	CARBON	1M	5%	1/4W
R253	1-247-713-11	CARBON	1 K	5%	1/4W	R412	1-249-547-11	CARBON	620	5%	1/4W
R254	1-247-700-11	CARBON	1 00	5%	1/4W	R413	1-212-857-00	FUSIBLE	10	5%	1/4W F
R255	1-247-128-00	CARBON	750	5%	1/4W	R414	1-212-857-00	FUSIBLE	10	5%	1/4W F
R256	1-247-128-00	CARBON	750	5%	1/4W	R415	1-212-857-00	FUSIBLE	10	5%	1/4W F
R257	1-249-512-11	CARBON	22	5%	1/4W	R416	1-212-857-00	FUSIBLE	10	5%	1/4W F
R258	1-247-708-11	CARBON	470	5%	1/4W	R417	1-249-547-11	CARBON	22	5%	1/4W
R259	1-249-518-11	CARBON	39	5%	1/4W	R452	1-247-725-11	CARBON	10K	5%	1/4W
R260	1-247-704-11	CARBON	220	5%	1/4W	R453	1-247-721-11	CARBON	4.7K	5%	1/4W
R261	1-247-721-11	CARBON	4.7K	5%	1/4W	R455	1-247-725-11	CARBON	10K	5%	1/4W
R262	1-246-545-00	CARBON	1M	5%	1/4W	R456	1-247-725-11	CARBON	10K	5%	1/4W
R263	1-249-843-11	CARBON	51K	1 %	1/2W	R457	1-246-545-00	CARBON	1 M	5%	1/4W
R264	1-247-144-00	CARBON	3.6K	1 %	1/4W	R458	1-247-725-11	CARBON	1 OK	5%	1/4W
R265	1-249-818-11	CARBON	4.7K	1 %	1/2W	R459	1-247-725-11	CARBON	1 OK	5%	1/4W
R267 R268 R269	1-259-501-11 1-247-739-11 1-247-704-11	CARBON CARBON CARBON	6.8 100 220	5% 5% 5%	1/2W 1/2W 1/4W	R460 R461 R462	1-247-721-11 1-246-545-00 1-249-547-11	CARBON CARBON CARBON	4.7K 1 M 620	5% 5%	1/4W 1/4W

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description		
R601 R602 R603 R604	1-247-717-11 1-249-465-11 1-247-721-11 1-249-468-11	CARBON CARBON CARBON CARBON	2.2K 47K 4.7K 82K	5%	1/4W 1/4W 1/4W 1/4W	R949 R950 R951 R952	1-247-710-11 1-247-708-11 1-249-429-11 1-249-441-11	CARBON CARBON CARBON CARBON	560 5% 470 5% 10K 5% 100K 5%	1/4W 1/4W 1/4W 1/4W
R605 R606 R607	1-247-717-11 1-247-721-11 1-247-116-00	CARBON CARBON CARBON	2.2K 4.7K 240		1/4W 1/4W 1/4W	R953 R954 R955	1-249-393-11 1-247-706-11 1-249-399-11	CARBON CARBON CARBON	10 5% 330 5% 33 5%	1/4W 1/4W 1/4W
R608 R609 R612	1-249-462-11 1-249-465-11 1-247-721-11	CARBON CARBON CARBON	22K 47K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W	R956 R957 R958	1 -247-706-11 1 -249-429-11 1 -249-429-11	CARBON CARBON CARBON	330 5% 10K 5% 10K 5%	1/4W 1/4W 1/4W
R613 R614 R615	1-247-725-11 1-249-462-11 1-246-435-00	CARBON CARBON CARBON	1 OK 22K 27	5% 5% 5%	1/4W 1/4W 1/4W	RV303	1-241-187-11 1-241-189-11 1-241-188-11 1-241-186-11	RES, VAR, CARE RES, VAR, CARE RES, VAR, CARE RES, VAR, CARE	30N 25K/100K 30N 25K/250K	(TREBLE) (BASS)
R616 R901 R902	1-247-721-11 1-249-433-11 1-249-433-11	CARBON CARBON CARBON	4.7K 22K 22K	5% 5% 5%	1/4W 1/4W 1/4W	RY1 01 RY1 02	1-515-787-11 1-515-725-11 1-515-725-11	RELAY RELAY RELAY		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
R903 R904 R905	1-249-433-11 1-249-433-11 1-249-433-11	CARBON CARBON CARBON	22K 22K 22K	5% 5% 5%	1/4W 1/4W 1/4W	RY401 RY601 <u>A</u>	1-515-725-11 .1-515-617-11 1-515-725-11	RELAY RELAY RELAY		
R906 R907 R908	1-249-433-11 1-249-433-11 1-249-417-11	CARBON CARBON CARBON	22K 22K 1 K	5% 5% 5%	1/4W 1/4W 1/4W		1-515-725-11	RELAY SWITCH, ROTARY	' (WITH MOTO (INPUT SEL	
R909 R910 R911	1-249-429-11 1-247-887-00 1-249-441-11	CARBON CARBON CARBON	1 0K 220K 1 00K	5% 5% 5%	1/4W 1/4W 1/4W	S1 02 S1 04	1-570-076-11 1-572-095-11	SWITCH, SLIDE SWITCH, ROTARY	(REMOTE TYP	E) ELECTOR)
R912 R913 R914	1 -249-441 -11 1 -247-895-00 1 -249-425-11	CARBON CARBON CARBON	100K 470K 4.7K	5%	1/4W 1/4W 1/4W	S201 S302 S304	1-554-019-21 1-572-428-11 1-572-429-11	SWITCH, SLIDE SWITCH, PUSH (SWITCH, PUSH ((CARTRIDGE 2 KEY)(SUBS	LOAD) ONIC)
	1-249-430-11 1-249-405-11 1-247-903-00	CARBON CARBON CARBON	12K 100 1M	5% 5% 5%	1/4W 1/4W 1/4W	S305	1-572-427-11 1-572-427-11	SWITCH, PUSH (2 KEY)(TURN	(ADAPTOR) OVER)
R919	1-249-429-11 1-249-429-11 1-249-425-11	CARBON CARBON CARBON	10K 10K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W	S307 S308	1-572-428-11 1-572-426-11 1-570-358-11	SWITCH, PUSH (SWITCH, PUSH (SWITCH, SLIDE	2 KEY)(MODE 1 KEY)(OUTP) UT)
R922	1-249-429-11 1-249-425-11 1-249-425-11	CARBON CARBON CARBON	1 OK 4.7K 4.7K		1/4W 1/4W 1/4W	S901 S902	1-554-303-21 1-554-303-21 .1-571-309-11	SWITCH, KEY BO SWITCH, KEY BO (E)SWITCH(\)	ARD (POWER) ARD (MUTING)
	1-249-425-11 1-249-425-11 1-249-413-11	CARBON CARBON CARBON	4.7K 4.7K 470		1/4W 1/4W 1/4W	∏ <u>Λ</u> . T2 Λ.	.1 -450-182-11 .1 -450-183-11 .1 -450-184-11 .1 -450-185-11	(AEP,WG)TRA (E)TRA (AEP,WG)TRA (E)TRA	NSFORMER, P NSFORMER, P	OWER OWER
R928	1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	1 0K 1 0K 1 0K	5% 5% 5%	1/4W 1/4W 1/4W	VH2 *	*1 -564-321-11 *1 -565-792-11 *1 -564-321-00	(E)PIN, CON (E)PIN, CON PIN, CONNECTOR	NECTOR 2P NECTOR 2P 2P	
R931 R932	1-249-429-11 1-249-429-11 1-249-421-11	CARBON CARBON CARBON	10K 10K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W	VH5 * VH6 *	F1 -564-687-11 F1 -565-792-11 F1 -564-104-00	(E)PIN, CON (AEP,WG)PIN PIN, CONNECTOR	, CONNECTOR	ŹР
R936		CARBON CARBON CARBON	10 10 10K	5% 5% 5%	1/4W 1/4W 1/4W	VH10 *	1 -564-321 -11 1 -568-226-11 1 -577-260-21	(E)PIN, CON (AEP,WG)PIN VIBRATOR, CERA	, CONNECTOR	2P
R941	1-249-441-11	CARBON CARBON CARBON	33 1 00K 1 0K	5% 5% 5%	1/4W 1/4W 1/4W	1	-465-532-11 C	CKING MATERIAL	ΤΕ	
R944	1-249-417-11	CARBON CARBON CARBON	47 1 K 1 00K	5% 5% 5%	1/4W 1/4W 1/4W	3-	-752-327-11 (CORD, CONNECTION AEP,E)MANUAL ENGLISH, FRENCH AEP,WG)MANUAL	., INSTRUCTI H, SPANISH,	PORTUGUESE)
R947	1-249-441-11	CARBON CARBON CARBON	100K 100K 100K	5% 5% 5%	1/4W 1/4W 1/4W	*4)) 01–100–933	DUTCH, SWEDISH, CUSHION INDIVIDUAL CART	, ITALIAN)	UIT.
										English

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